The MPACT Initiative: Using Behavioral Tools to Improve Children's Early Math Skills







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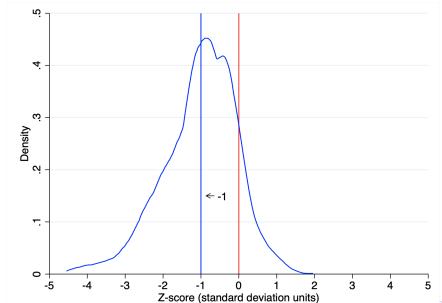
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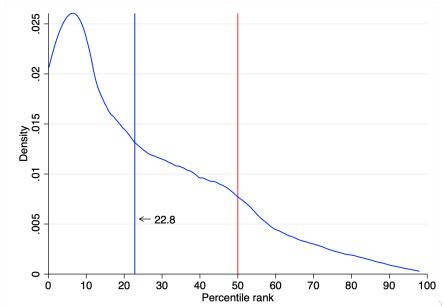
Behavioral Insights and Parenting Lab Harris School of Public Policy University of Chicago

Promising Math 2019

Participant children start preschool behind other students



They rank in the 23rd percentile



Our goal is to help parents and close the achievement gap

- **Problem**: Underserved children arrive at school behind in math skills and they hardly catch up to more advantaged students.
- A few possible reasons:
 - Lack of information, materials, or skills.
 - ▶ Present bias: the tendency to under-value future payoff ⇒ lower parental investment.
 - Fixed mindset: belief that skills are set at birth and fixed.

The Math for Parents and Children Together (MPACT) Initiative

MPACT early math videos



MPACT field experiment



The Math for Parents and Children Together (MPACT) Initiative

- MPACT early math videos
 - 6 videos
 - ► English and Spanish
 - ► Link to videos
- MPACT field experiment
 - ▶ In the field until March 2020
 - English and Spanish

MPACT field experiment: treatment arms

- MKit only: Booklet with math activities.
- MKit + present bias: Booklet + text messages to overcome present bias.
- MKit + growth mindset: Booklet + text messages with growth mindset content.
- Tablet: Tablet with math apps.

Recruitment: 1,458 children in 29 Head Start centers



Thank you!

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